Flight-Testing Newton's Laws			
2003 Mathematics			
Academic Content Standards			
Ohio Mathematics			
Grade 9			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	OH	MA.9.3.G.3	Analyze two-dimensional figures in a coordinate plane; e.g., use slope and distance formulas to show that a quadrilateral is a parallelogram.
Session-3 (1-6)	OH	MA.9.2.E	Estimate and compute various attributes, including length, angle measure, area, surface area and volume, to a specified level of precision.
Session-5 (1-6)	OH	MA.9.2.F	Write and solve real-world, multi-step problems involving money, elapsed time and temperature, and verify reasonableness of solutions.
Session-6 (1-8)	OH	MA.9.2.E	Estimate and compute various attributes, including length, angle measure, area, surface area and volume, to a specified level of precision.
Session-7 (1-5)	OH	MA.9.3.I.2	Apply proportions and right triangle trigonometric ratios to solve problems involving missing lengths and angle measures in similar figures.
Session-8 (1-9)	OH	MA.9.3.G.3	Analyze two-dimensional figures in a coordinate plane; e.g., use slope and distance formulas to show that a quadrilateral is a parallelogram.
Session-8 (1-9)	OH	MA.9.4.I.14	Describe the relationship between slope and the graph of a direct variation and inverse variation.
Flight-Testing Newton's Laws			
2003 Mathematics			
Academic Content Standards			
Ohio Mathematics			
Grade 10			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-1 (1-17)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-2 (1-10)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-3 (1-6)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.

Session-4 (1-11)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-5 (1-6)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-6 (1-8)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-7 (1-5)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-8 (1-9)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Session-9 (1-7)	OH	MA.10.4.H.11	Solve real-world problems that can be modeled, using systems of linear equations and inequalities.
Flight-Testing Newton's Laws			
2003 Mathematics			
Academic Content Standards			
Ohio Mathematics			
Grade 11			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-1 (1-17)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-2 (1-10)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-3 (1-6)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-4 (1-11)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-5 (1-6)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-6 (1-8)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-7 (1-5)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-7 (1-5)	OH	MA.11.3.A.4	Use trigonometric relationships to determine lengths and angle measures; i.e., Law of Sines and Law of Cosines.

Session-8 (1-9)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Session-9 (1-7)	OH	MA.11.2.D.5	Solve real-world problems involving area, surface area, volume and density to a specified degree of precision.
Flight-Testing Newton's Laws			
2003 Mathematics			
Academic Content Standards			
Ohio Mathematics			
Grade 12			
Activity/Lesson	**State**	**Standards**	
Session-1 (1-17)	OH	MA.12.2.D.1	Solve problems involving derived measurements; e.g., acceleration and pressure.
Session-3 (1-6)	OH	MA.12.2.D.1	Solve problems involving derived measurements; e.g., acceleration and pressure.
Session-8 (1-9)	OH	MA.12.3.A.3	Relate graphical and algebraic representations of lines, simple curves and conic sections.